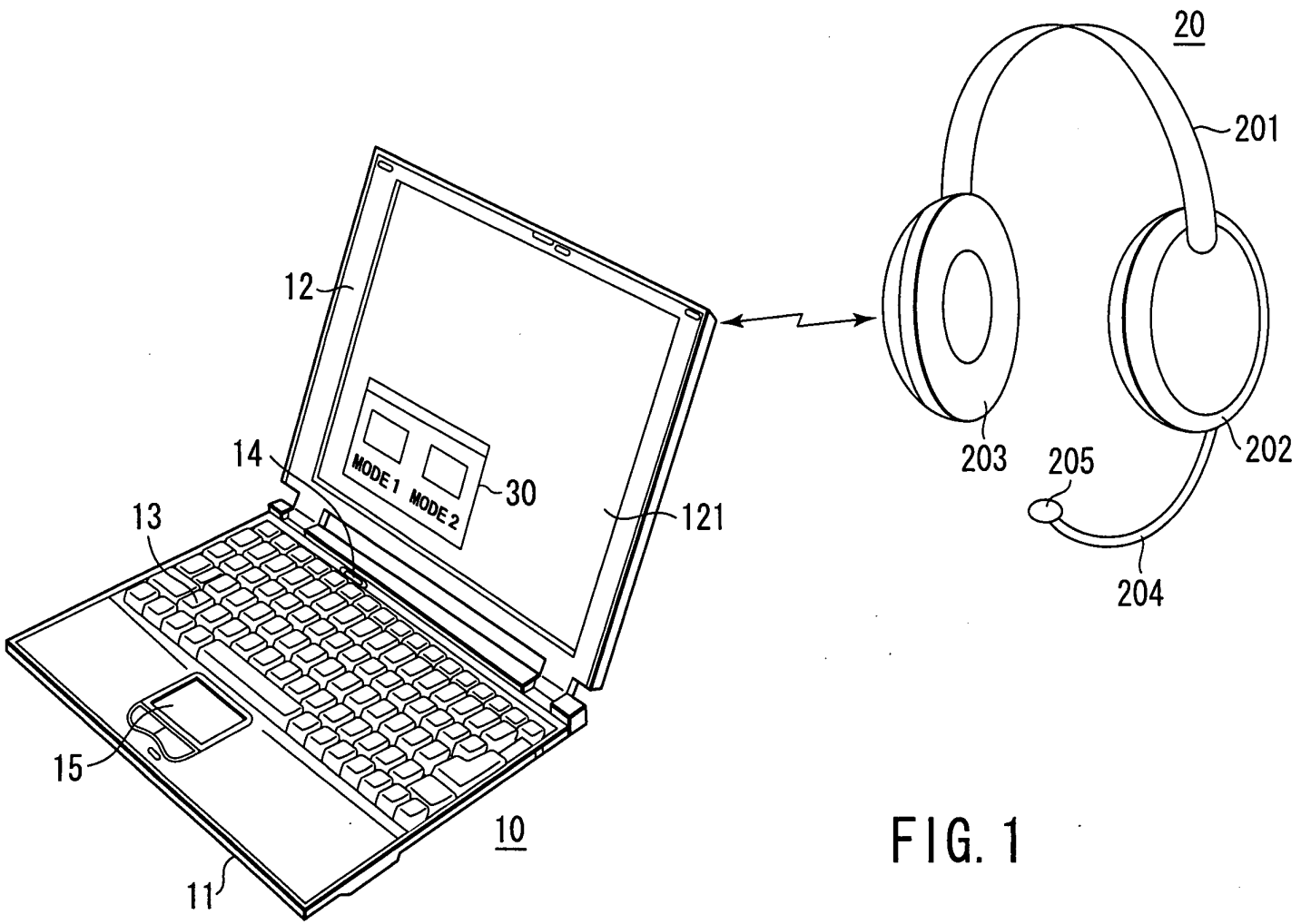

FIG. 1

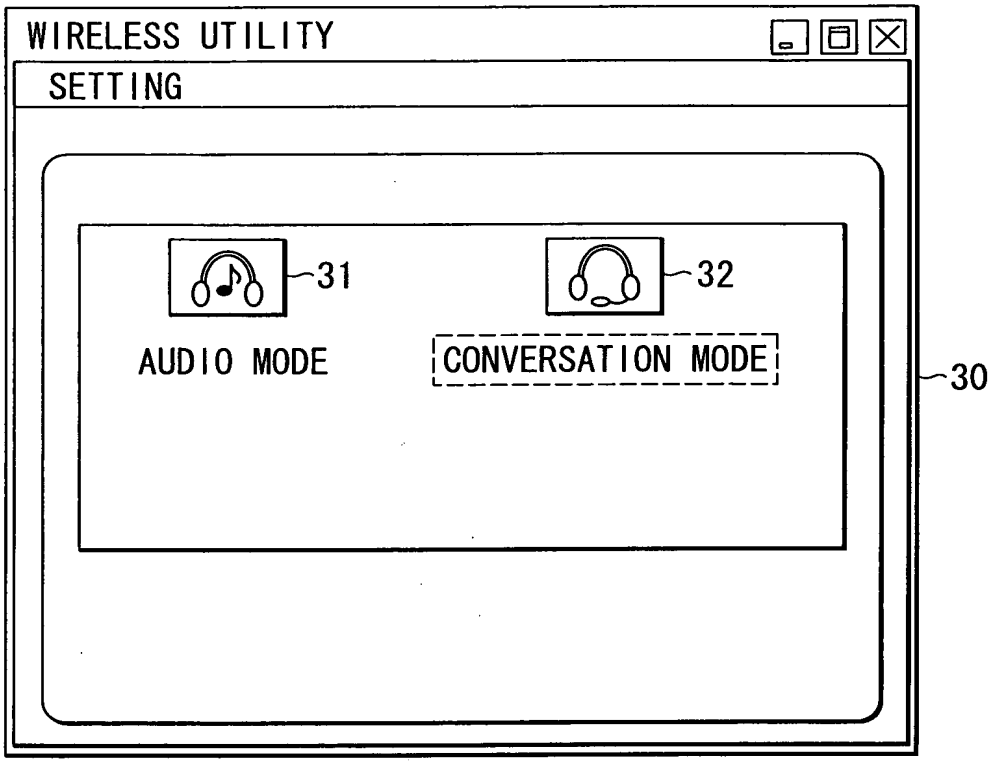
WIRELESS UTILITY
SETTING
31
32
AUDIO MODE
CONVERSATION MODE
30

FIG. 2

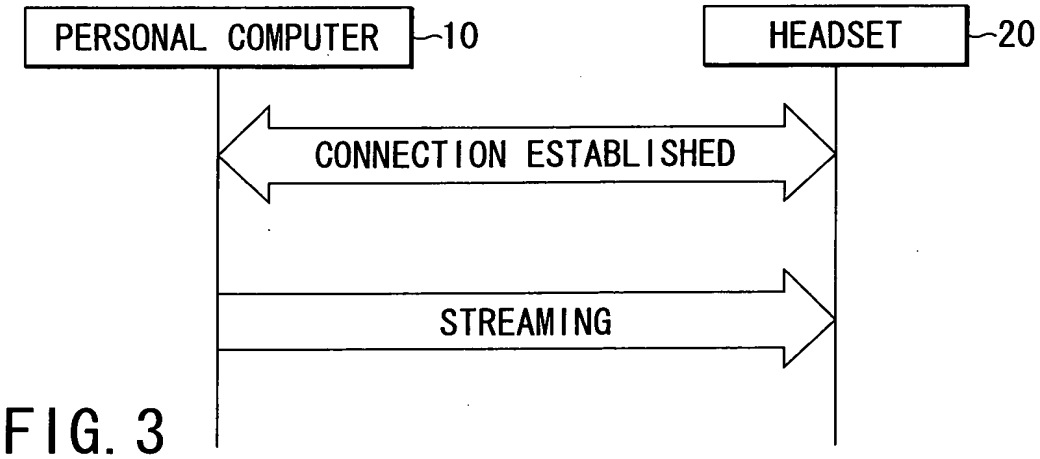
PERSONAL COMPUTER
10
HEADSET
20
CONNECTION ESTABLISHED
STREAMING

FIG. 3

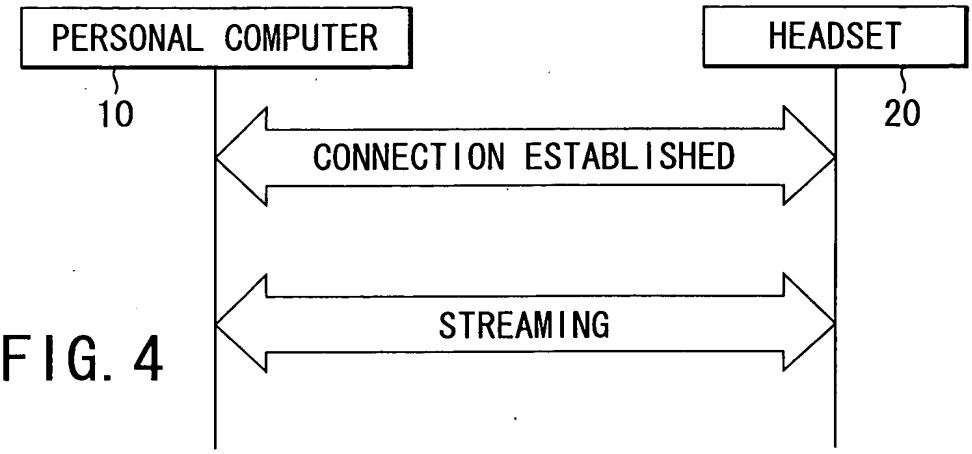

FIG. 4

COMMUNICATION MODE	STREAMING	CODEC
AUDIO MODE	ONE-WAY (NUMBER OF TRANSPORT CHANNELS = 1)	SBC
CONVERSATION MODE	TWO-WAY (NUMBER OF TRANSPORT CHANNELS = 2	μ-law

FIG. 5

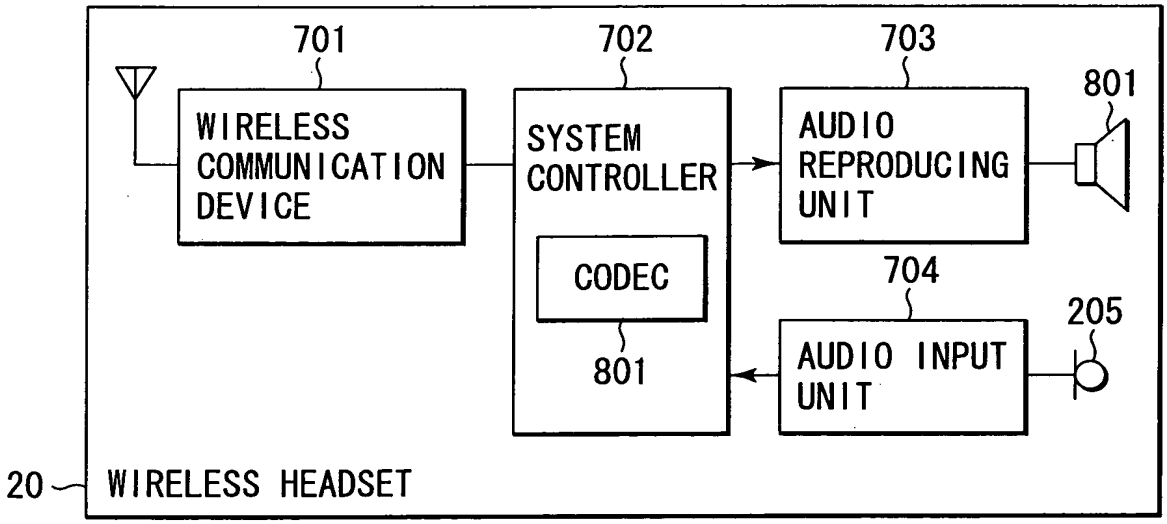

FIG. 8

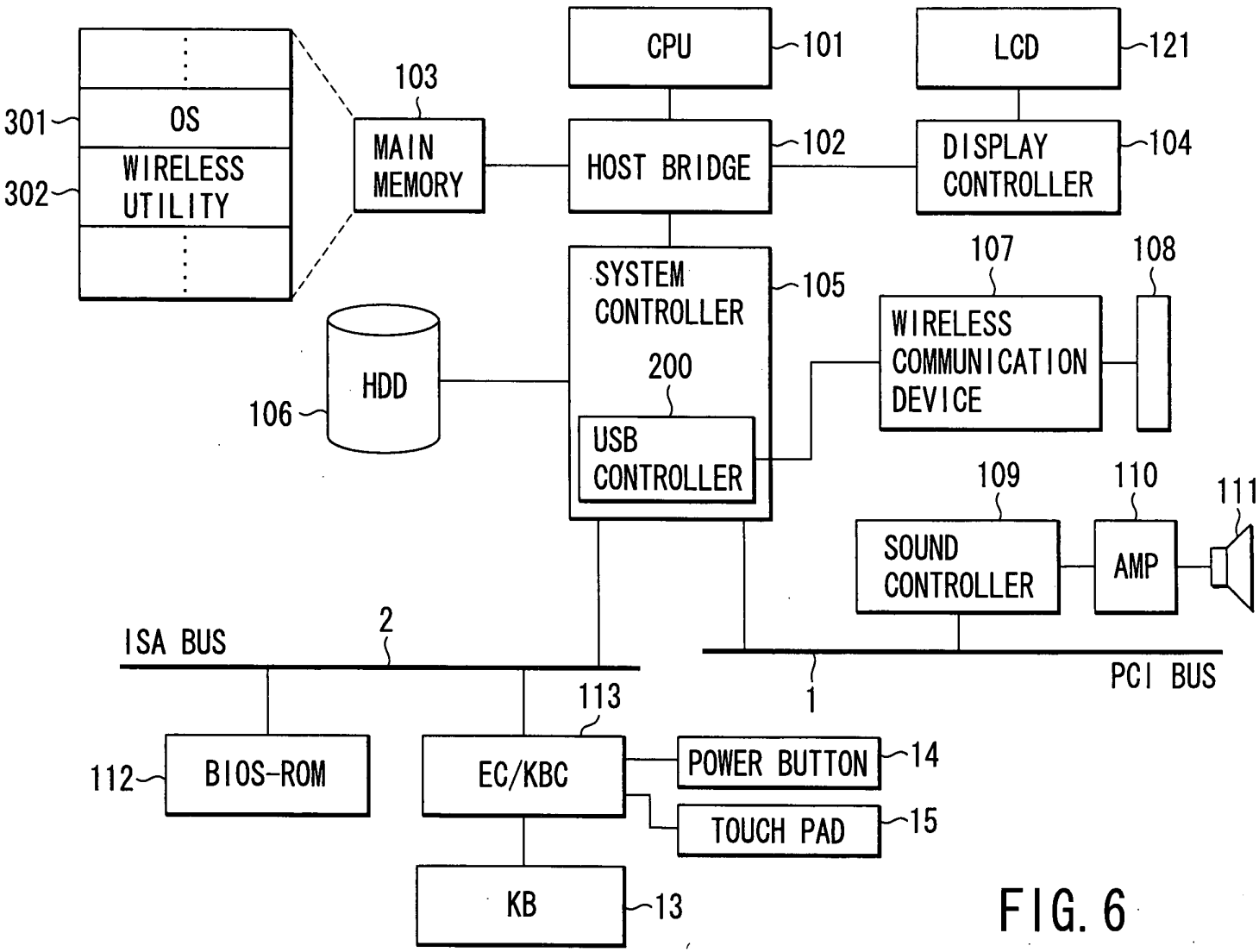
CPU
101
LCD
121
103
301
OS
302
WIRELESS UTILITY
MAIN MEMORY
HOST BRIDGE
102
DISPLAY CONTROLLER
104
SYSTEM CONTROLLER
105
107
108
WIRELESS COMMUNICATION DEVICE
HDD
106
200
USB CONTROLLER
109
110
111
SOUND CONTROLLER
AMP
ISA BUS
2
PCI BUS
1
113
112
BIOS-ROM
EC/KBC
POWER BUTTON
14
TOUCH PAD
15
KB
13

FIG. 6

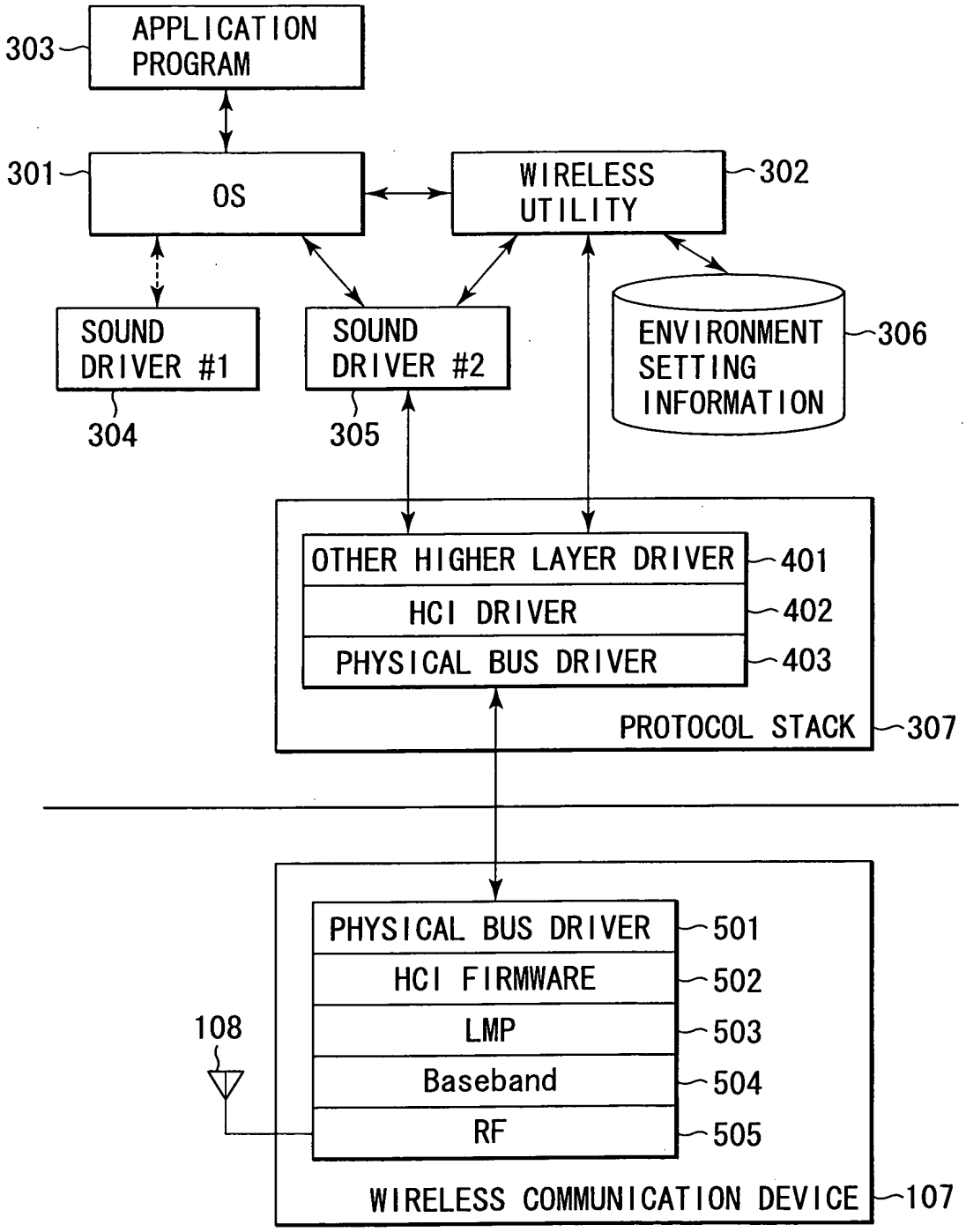
303
APPLICATION PROGRAM
301
OS
WIRELESS UTILITY
302
SOUND DRIVER #1
304
SOUND DRIVER #2
305
ENVIRONMENT SETTING INFORMATION
306
OTHER HIGHER LAYER DRIVER
401
HCI DRIVER
402
PHYSICAL BUS DRIVER
403
PROTOCOL STACK
307
PHYSICAL BUS DRIVER
501
HCI FIRMWARE
502
LMP
503
Baseband
504
RF
505
108
WIRELESS COMMUNICATION DEVICE
107

FIG. 7

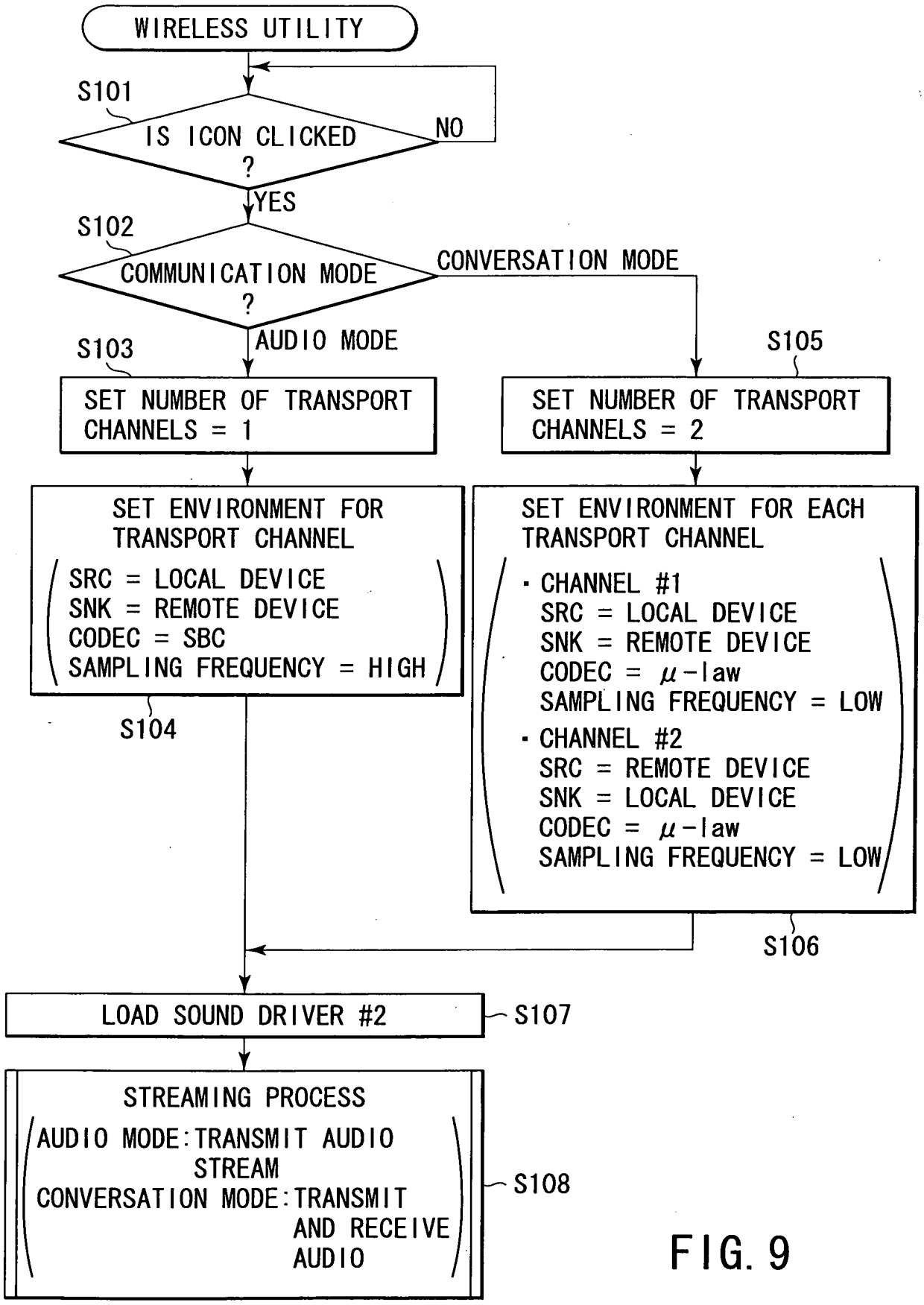
WIRELESS UTILITY
S101
IS ICON CLICKED ?
NO
YES
S102
COMMUNICATION MODE ?
CONVERSATION MODE
AUDIO MODE
S103
SET NUMBER OF TRANSPORT CHANNELS = 1
S105
SET NUMBER OF TRANSPORT CHANNELS = 2
SET ENVIRONMENT FOR TRANSPORT CHANNEL
SRC = LOCAL DEVICE
SNK = REMOTE DEVICE
CODEC = SBC
SAMPLING FREQUENCY = HIGH
S104
SET ENVIRONMENT FOR EACH TRANSPORT CHANNEL
· CHANNEL #1
SRC = LOCAL DEVICE
SNK = REMOTE DEVICE
CODEC = μ-law
SAMPLING FREQUENCY = LOW
· CHANNEL #2
SRC = REMOTE DEVICE
SNK = LOCAL DEVICE
CODEC = μ-law
SAMPLING FREQUENCY = LOW
S106
LOAD SOUND DRIVER #2
S107
STREAMING PROCESS
AUDIO MODE:TRANSMIT AUDIO STREAM
CONVERSATION MODE:TRANSMIT AND RECEIVE AUDIO
S108

FIG. 9